

FIG. 1

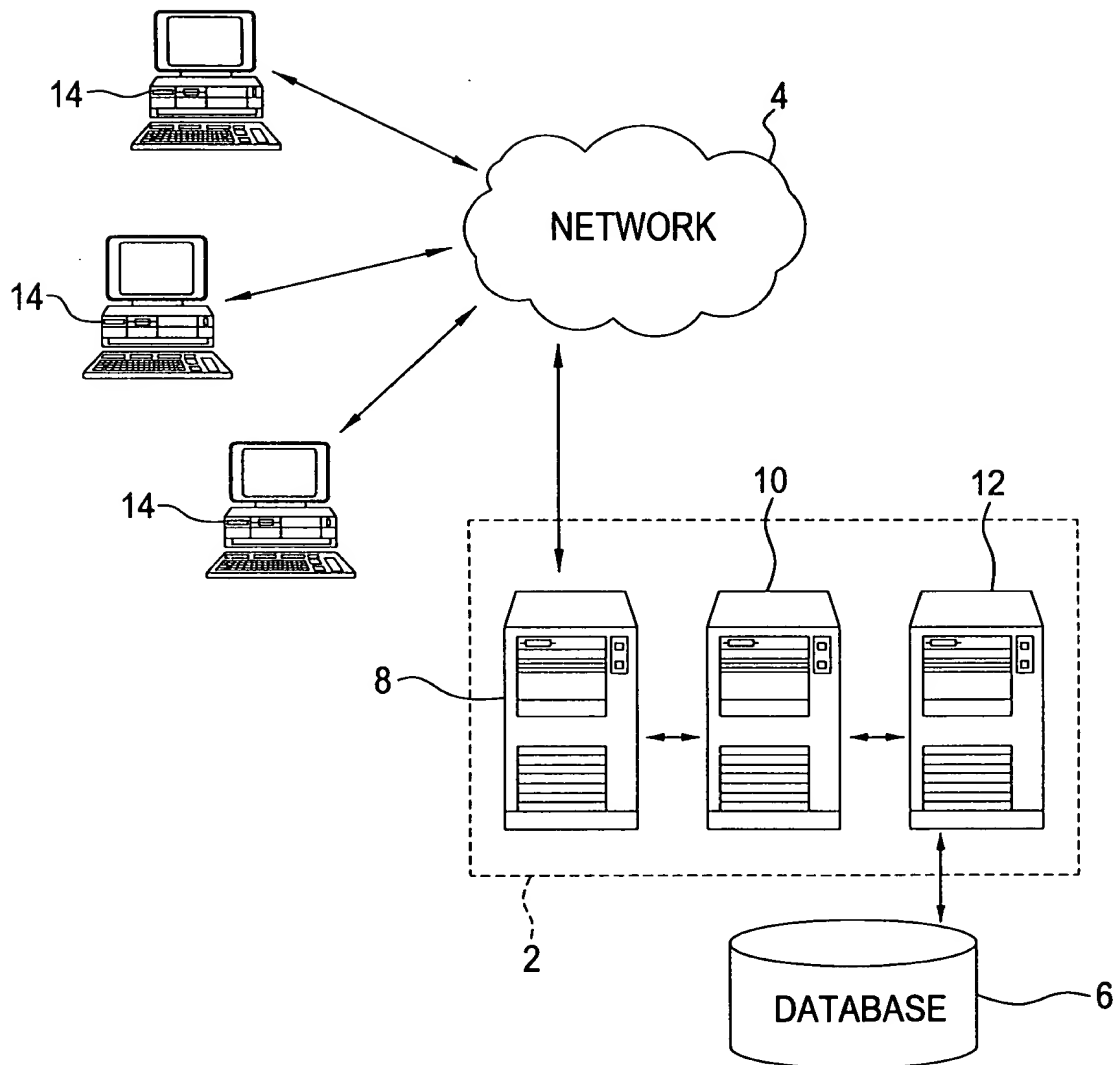






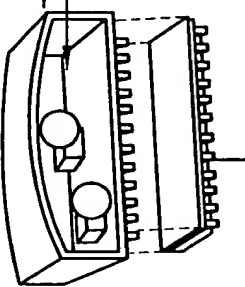
FIG. 2

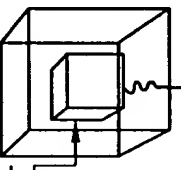
GETherm Thermal Management Feasibility Analysis

Quick-Start Directions:

① Enter geometry and conditions:



Enclosure Volume  
Electronics Volume  
(example: circuit board  
+ volume A + volume B)  
(Electronics Volume is  
the volume of anything  
that takes up space in  
the enclosure.)



Simplified Geometry:


Power dissipated  
into the Enclosure

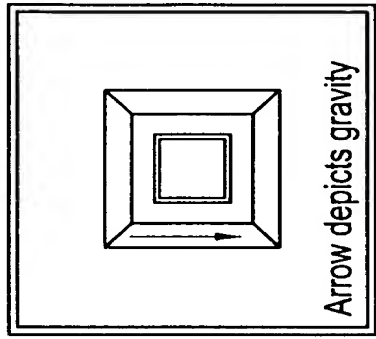
Heat Sink Area: External surface area including ribs  
This calculator is based on cubic volume. The VOLUME is more important  
than LENGTH and WIDTH. VALID FOR SEALED ENCLOSURES ONLY!

Valid Ranges: Outside of these ranges, accuracy may decrease.

Enclosure Volume: 142in<sup>3</sup> - 3723in<sup>3</sup>  
Electronics Volume: 20% - 80% of Enclosure Volume  
Power Dissipated: 10W - 250Watts  
Ambient Temperature: 20 - 65C  
Heat Sink Area: 2 - 5 times the area of a face on the cube

② Temperature Limit: The maximum tolerable electronics temperature.  
For integrated circuit chips, use "case temperature."

③ Click the  icon to calculate the results.







Arrow depicts gravity

Plastic Housing  
Heat Source not in contact  
with housing (PCB on  
standoffs)

INPUT:

Enclosure Vol:  cm<sup>3</sup> 100  
Electronics Vol:  cm<sup>3</sup> 102  
Power:  W 104  
Ambient Temp:  C 106  
Heat Sink Area:  cm<sup>2</sup> 108  
Circuit Temp Limit:  C 110

   116  118

114

FIG. 3

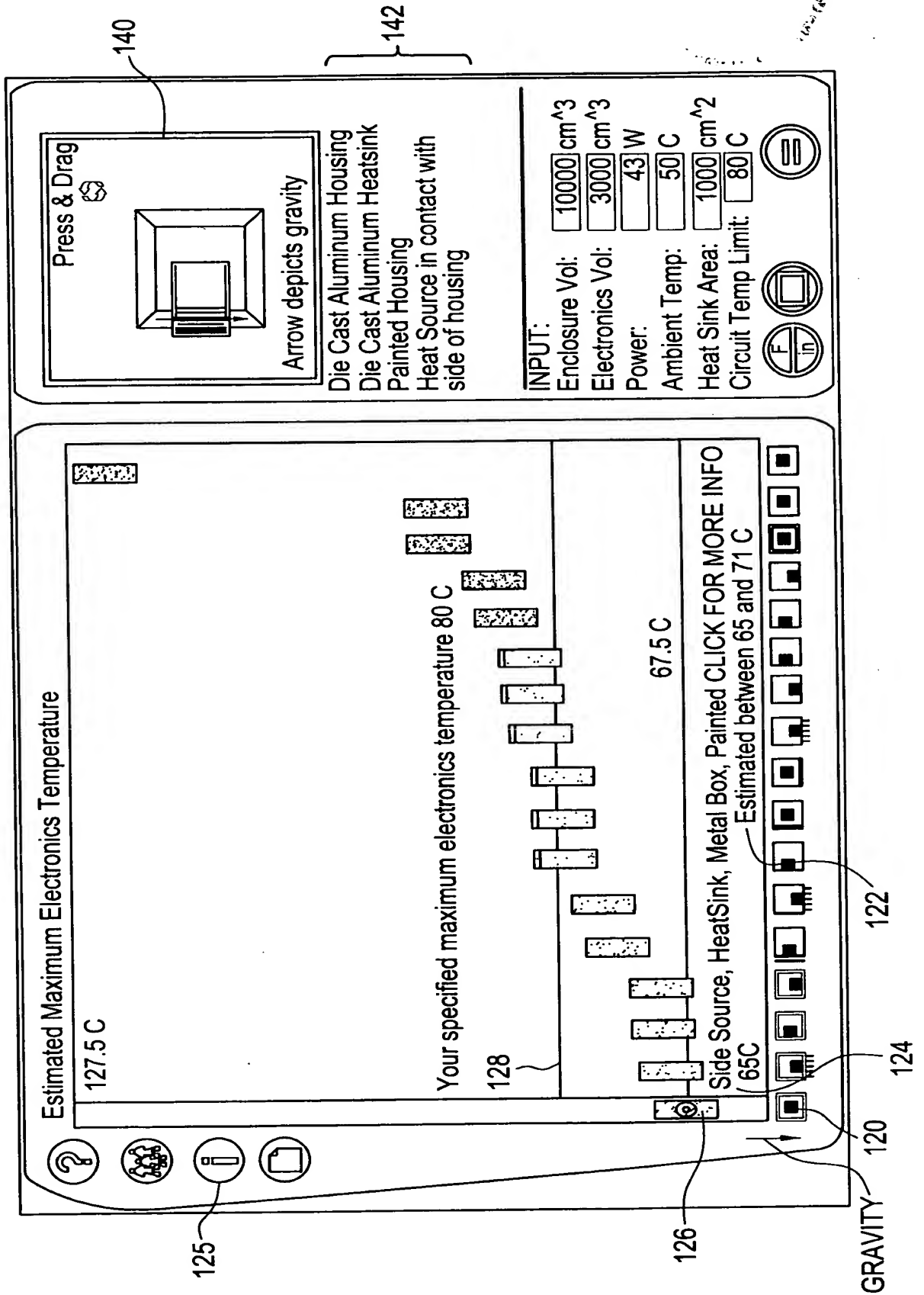


FIG. 4

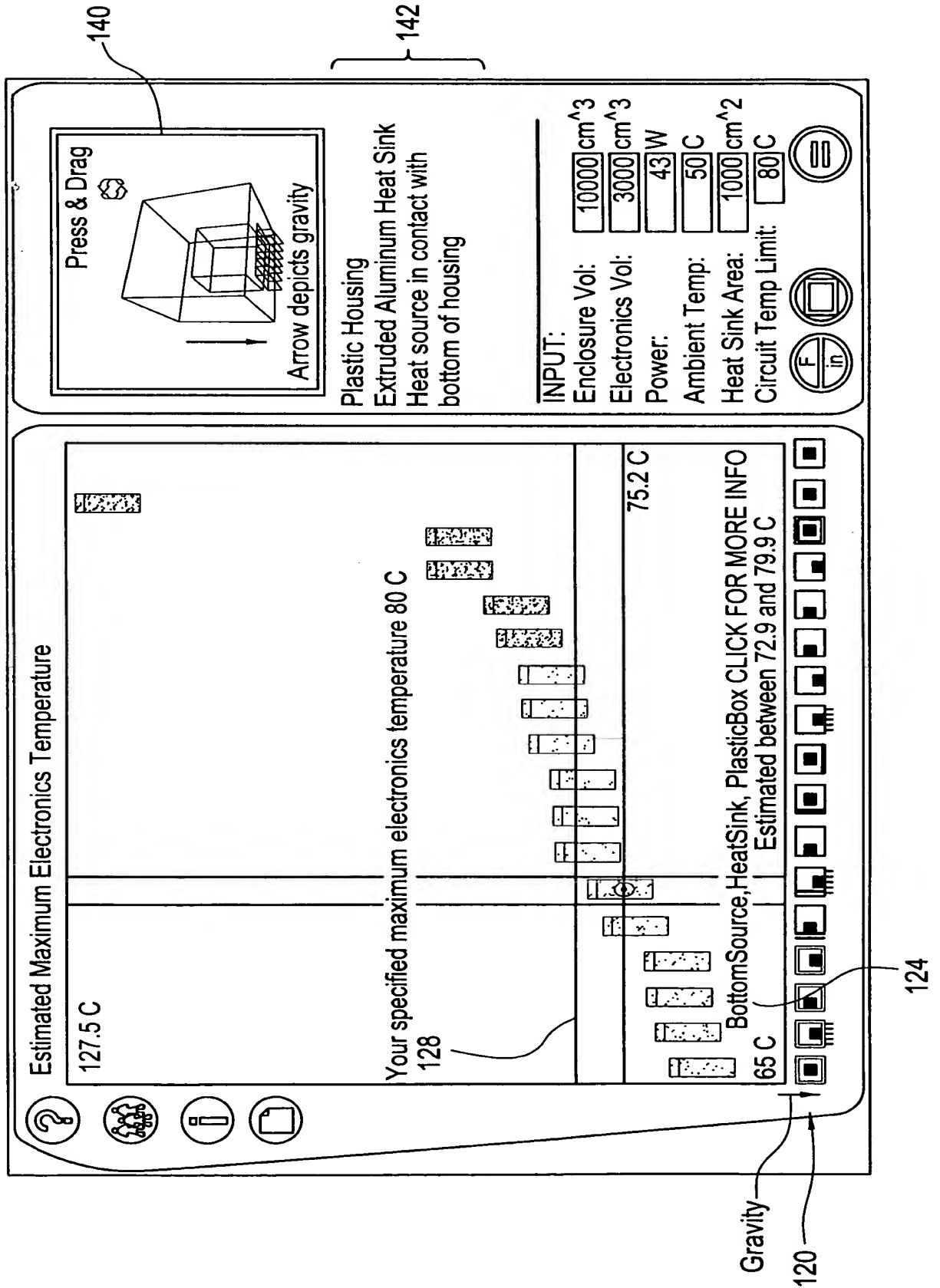


FIG. 5

